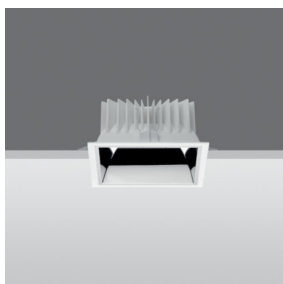


Last information update: April 2018



Square recessed luminaire - 226x226 mm H=103 mm - neutral white - INVERTER - general light optic

Product code

MC13

Technical description

Recessed fixed square luminaire designed to use a LED lamp. Version with rim for surface-mounting. Multi-faceted reflector vacuum-metallised with aluminium vapours with an anti-scratch protective layer. Die-cast aluminium body and passive dissipation system. Product complete with 2000 lm LED unit with INVERTER in a neutral white tone 4000K and driver separate from the luminaire. General light distribution.

Installation

Recessed using torsion springs which allow easy installation in false ceilings with thickness ranging from 1 mm to 25 mm.

Dimension (mm)

226x226x100

Colour

White/Aluminium (39)

Weight (Kg)

3.64

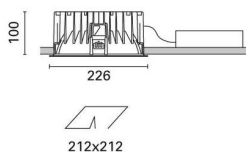
Mounting

ceiling recessed

Wiring

product complete with electronic components with INVERTER

Complies with EN60598-1 and pertinent regulations



Product configuration: MC13

Product characteristics

Total lighting output [Lm]: 1920
 Total power [W]: 18.8
 Luminous efficacy [Lm/W]: 102.1
 Life Time: 50,000h - L80 - B10 (Ta 25°C)

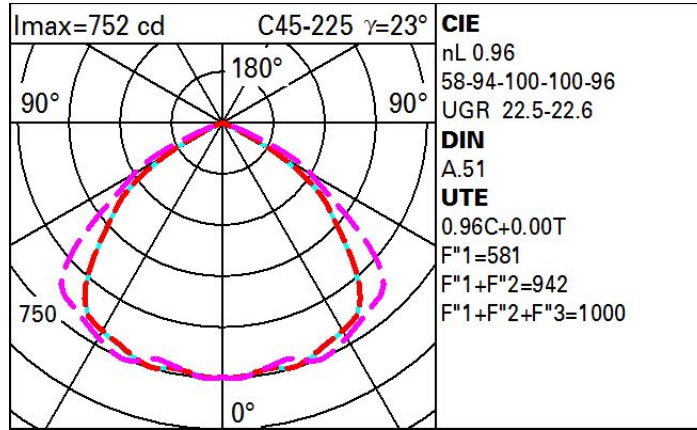
Total luminous flux at or above an angle of 90° [Lm]: 0
 Emergency luminous flux [Lm]: /
 Voltage [V]: -
 Number of optical assemblies: 1

Optical assembly Characteristics Type 1

Light Output Ratio (L.O.R.) [%]: 96
 Lamp code: LED
 ZVEI Code: LED
 Nominal power [W]: 16
 Nominal luminous [Lm]: 2000
 Lamp maximum intensity [cd]: /
 Beam angle [°]: /

Number of lamps for optical assembly: 1
 Socket: /
 Ballast losses [W]: 2.8
 Colour temperature [K]: 4000
 CRI: 80
 Wavelength [Nm]: /
 MacAdam Step: 3

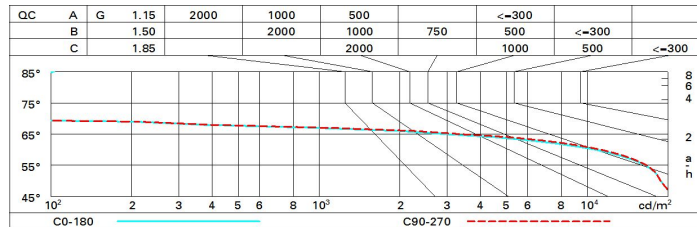
Polar



Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	68	59	52	48	57	52	51	45	47
1.0	75	66	60	56	65	60	59	53	56
1.5	85	78	73	69	77	72	71	66	69
2.0	90	85	81	78	83	80	79	74	77
2.5	93	89	86	83	87	84	83	79	82
3.0	95	92	89	86	90	87	86	82	85
4.0	97	94	92	90	92	90	89	85	89
5.0	98	96	94	92	94	92	91	87	91

Luminance curve limit



UGR diagram

Corrected UGR values (at 2000 lm bare lamp luminous flux)											
Reflect.:		0.70	0.70	0.50	0.50	0.30	0.70	0.70	0.50	0.50	0.30
ceiling/cav		0.70	0.70	0.50	0.50	0.30	0.70	0.70	0.50	0.50	0.30
walls		0.50	0.30	0.50	0.30	0.30	0.50	0.30	0.50	0.30	0.30
work pl.		0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
Room dim		viewed crosswise					viewed endwise				
x	y										
2H	2H	22.4	23.4	22.7	23.7	23.9	22.5	23.4	22.8	23.7	23.9
	3H	22.3	23.2	22.7	23.5	23.8	22.9	23.7	23.2	24.0	24.3
	4H	22.3	23.0	22.6	23.3	23.7	22.9	23.7	23.2	24.0	24.3
	6H	22.2	22.9	22.5	23.2	23.5	22.8	23.5	23.2	23.8	24.2
	8H	22.1	22.8	22.5	23.2	23.5	22.8	23.5	23.1	23.8	24.1
	12H	22.1	22.8	22.5	23.1	23.5	22.7	23.4	23.1	23.7	24.1
4H	2H	22.8	23.6	23.2	23.9	24.2	22.3	23.1	22.6	23.4	23.7
	3H	22.8	23.4	23.1	23.8	24.1	22.7	23.3	23.1	23.7	24.0
	4H	22.7	23.2	23.1	23.6	24.0	22.7	23.3	23.1	23.6	24.0
	6H	22.6	23.1	23.0	23.5	23.9	22.6	23.1	23.0	23.5	23.9
	8H	22.5	23.0	23.0	23.4	23.9	22.6	23.0	23.0	23.4	23.9
	12H	22.5	22.9	23.0	23.3	23.8	22.5	22.9	23.0	23.4	23.8
8H	4H	22.5	23.0	23.0	23.4	23.9	22.6	23.0	23.0	23.4	23.9
	6H	22.5	22.8	22.9	23.3	23.8	22.5	22.9	23.0	23.3	23.8
	8H	22.4	22.7	22.9	23.2	23.7	22.4	22.8	22.9	23.2	23.7
	12H	22.4	22.6	22.9	23.1	23.6	22.4	22.7	22.9	23.2	23.7
12H	4H	22.5	22.9	23.0	23.3	23.8	22.5	22.9	23.0	23.4	23.8
	6H	22.4	22.7	22.9	23.2	23.7	22.4	22.8	22.9	23.2	23.7
	8H	22.4	22.6	22.9	23.1	23.6	22.4	22.7	22.9	23.2	23.7
Variations with the observer position at spacing:											
S =	1.0H	0.5 / -0.5		0.5 / -0.5							
	1.5H	1.5 / -4.1		1.5 / -3.8							
	2.0H	2.3 / -17.2		2.3 / -16.6							